BIBLIOGRAPHY

- America's Test Kitchen. (2017). *The Complete Mediterranean Cookbook*. America's Test Kitchen.
- Bendini, A., Cerretani, L., et al. (2015). Health benefits of olive oil polyphenols: An overview. *Rivista Italiana Sostanze Grasse*, 92, 37–44.
- Bennett, R. N., Mellon, F. A., & Kroon, P. A. (2018). The role of garlic in the diet: A review of the health benefits. *Journal of Nutrition & Intermediary Metabolism*, 14, 1–8.
- Bhat, R., & Bhat, S. (2018). Nutritional and functional properties of jackfruit seeds: review. *Journal of Food Science and Technology*, 55(1), 1-10.
- Bhat, R., et al. (2018). Nutritional and functional properties of jackfruit seeds. *Journal of Food Science and Technology*, 55(5), 1820-1827.
- Bhat, R., et al. (2020). Nutritional and functional properties of jackfruit seeds. Journal of Food Science and Technology.
- Butcher, Sally. (2015). The New Middle Eastern Vegetarian. Pavilion Books.
- Gharby, S., Harhar, H., et al. (2020). The impact of olive oil and sesame paste on food emulsions: A model of hummus. *Journal of Food Quality*, 2020, Article ID 8859703.
- Healthy Seasonal Recipes. (2020). Roasted Garlic Hummus. Retrieved from Healthy Seasonal Recipes.
- Huang, Y., et al. (2016). Nutritional composition and health benefits of sesame seeds *Journal of Nutritional Science*, 5, e24.
- Kris-Etherton, P. M., et al. (2015). Bioactive compounds in foods: The role of dietary fats in cardiovascular disease. *American Journal of Clinical Nutrition*, 101(6), 1395S-1400S.
- Kumar, A., & Singh, R. (2017). Jackfruit seeds: A potential source of protein and dietary fiber. *International Journal of Food Science and Nutrition*, 2(3), 1 5.
- Kumar, S., et al. (2015). Nutritional and health benefits of sesame seeds: A review. *Journal of Food Science and Technology*, 52(3), 1399-1406.

- Kumar, S., et al. (2017). Nutritional and functional properties of jackfruit seeds: A review. *International Journal of Food Science and Nutrition*, 68(3), 267 275.
- Martín-Peláez, S., Mosele, J. I., et al. (2020). Health effects of olive oil polyphenols: Recent advances. *Nutrients*, 12(6), 1890.
- Piroddi, M., Albini, A., et al. (2017). Nutrigenomics of extra-virgin olive oil: A review. *BioFactors*, 43(1), 17–41.
- Quora. (2021). In making hummus, do I better use granulated garlic or garlic powder? Retrieved from Quora.
- Rafieian-Kopaei, M., et al. (2017). Lipid-modifying and anti-inflammatory effects of olive oil consumption. *Journal of Lipids*, 2017, Article ID 4729493.
- Rani, S., et al. (2019). Development and sensory evaluation of jackfruit seed hummus. *Journal of Culinary Science & Technology*, 17(3), 245-258.
- Ried, K., Toben, C., & Fakler, P. (2016). Effect of garlic on blood pressure: A systematic review and meta-analysis. *BMC Cardiovascular Disorders*, 16(1), 1-10.
- Serious Eats. (2020). The Food Lab's Science of Great Hummus. Retrieved from Serious Eats.
- Sinha, A., et al. (2016). Jackfruit seed: A potential source of protein and dietary fiber. *Food Science and Human Wellness*, 5(2), 67-72.
- Solomonov, Michael. (2018). Zahav: A World of Israeli Cooking. Artisan.
- Sreeramulu, J., & Reddy, K. (2015). Nutritional and functional properties of jackfruit seeds. *Journal of Nutritional Science*, 4, e12.
- Wiley. (2015). *Mediterranean Diet for Dummies*. Wiley.
- Zubaida, N., & Al-Shammari, F. (2022). Traditional Mediterranean dips: Comparative sensory and functional profiles of hummus preparations. *Journal of Culinary Science & Technology*, 20(3), 297–310.

APPENDIX

1. Approved Recipe



CULINARY INNOVATION AND NEW PRODUCT DEVELOPMENT

APPROVAL RECIPEE

Recipe Name : JACKFRUIT SEEDS HUMMUS

TITLE OF C&D : UTILIZING DISCARDED JACKFRUIT SEEDS AS A

SUBSTITUTE CHICKPEAS AS A HUMMUS

Yield : 1-2 portion

Main Ingredients : 100gr Jackfruit Seeds

Ingredients

- Cooked Jackfruit Seeds 100g about 20-25 - Water 40 gr

seeds

- Garlic Confit 4 gr

- Tahini 50 gr

- Salt 4 gr

- Lemon Juice 15 gr

- Seasoning Powder 4 gr

- Olive Oil 10 gr
- Paprika powder 4 gr

Method

- Prepare the water and gently boil the jackfruit seeds until they are tender enough to be easily pierced and lifted with a fork.
- Carefully peel the seeds.
- 3. Next, transfer the peeled jackfruit seeds to a blender or food processor.
- 4. Add the garlic confit, salt, pepper, oil, water, tahini, and lemon juice.
- 5. Blend until a smooth paste is achieved.
- 6. Put the hummus into dehydrator at 60 Celsius for 6 hours.
- The hummus is ready to eat.



CULINARY INNOVATION AND NEW PRODUCT DEVELOPMENT

Product Description

Jackfruit seeds are often wasted as food waste, even though they have great potential to be used as high-nutrient food. One innovation that can be done is to replace chickpeas with jackfruit seeds in the manufacture of hummus.

Jackfruit seeds are also an Economic Alternative of chickpeas, and jackfruit seed hummus is also a nutritious alternative to chickpeas hummus, jackfruit seed hummus rich in fiber and plant protein. Fiber content helps maintain digestive health and gives a feeling of fullness longer. Its proteins play an important role in building and repairing body tissues. Hummus jackfruit seeds are also low in fat, making them an ideal choice for those who watch their calorie intake. With its distinctive savory taste, this hummus is perfect for enjoying as a dip or spread.

TRIAL PROGRESS

In this experiment, I prepared hummus using jackfruit seeds. I began by boiling the seeds until tender, then carefully removed the tough outer layer before blending them until smooth. The resulting hummus had a denser texture than traditional hummus, and while mostly smooth, it retained a slightly coarse consistency. The flavor was savory with a subtle, distinctive jackfruit seed aroma.

TRIAL DOCUMENTATION











CULINARY INNOVATION AND NEW PRODUCT DEVELOPMENT

Student Name

: Christian Farrel Sugiarto

NIM

: 2374130010017

Advisor	1st Examiner	2 nd Examiner		
Manufi	Mathing	Mant		
Name: Novi Indah Permata Sari, S.T., M.Sc Date:	Name: Heni Adhianata, S.TP., M.Sc Date:	Name: Chef Gilbert Yanaar Hadiwirawan, A.Md. Par		

2. Approved Sensory



CULINARY INNOVATION AND NEW PRODUCT DEVELOPMENT SENSORY TEST

DATE

: 05-May-25

NAME

: Christian Farrel Sugiarto

NIM

: 2374130010017

PRODUCT: UTILIZING DISCARDED JACKFRUIT SEEDS AS A SUBTITUTE

CHICKPEAS AS HUMMUS

ADVISOR : Novi Indah Permata Sari, S.T., M.Sc.

PANELIST	SIGHT	SMELL	TEXTURE	TASTE	OVERALL	TOTAL
Panelist 1	4	3	4	4	3	18
Panelist 2	3	4	4	4	4	19
Panelist 3	4	4	4	4	4	20
Panelist 4	4	4	4	4	4	20
Panelist 5	4	4	4	3	4	19
Panelist 6	4	3	4	4	4	19
Panelist 7	4	4	4	3	4	19
Panelist 8	4	3	4	4	3	18
Panelist 9	3	4	4	4	4	19
Panelist 10	4	4	4	4	4	20
TOTAL	38	37	40	38	38	191

NOTES

1. all good

2. Sudah halus dan enak

:

3. Enak dan lebih halus dari sebelumnya. Namun cenderung sedikit seperti bubur

4. -

5. -

6. Okay

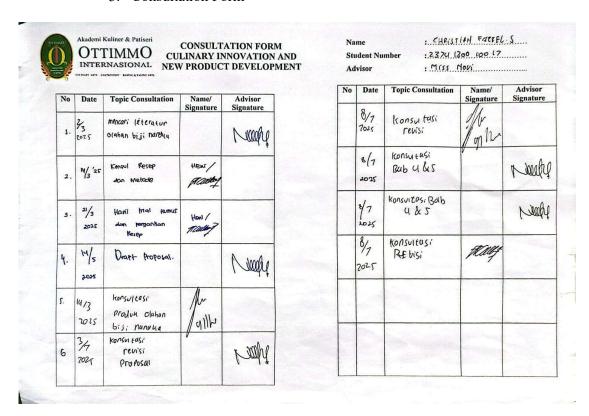
7. -

8. it was good

9. its quite smooth

10. delicious and smooth, but it feels like porridge

3. Consultation Form



4. Process Documentation

1) Ingredients of Hummus Jackfruit seeds, olive oil, tahini, seasoning, water, garlic, lemon juice.





2) Mix all ingredient, jackfruit seeds, lemon juice, garlic, water, seasoning, olive oil.







3) Dehydrated for 6 hours, 60 celcius, and blend until smooth



